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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,151	03/31/2004	Kazuyoshi Honda 10873.1412US01		8205
53148 HAMRE, SCH	7590 08/23/2007 IUMANN, MUELLER & I	EXAMINER		
P.O. BOX 2902-0902 MINNEAPOLIS, MN 55402			MARTIN, ANGELA J	
			ART UNIT	PAPER NUMBER
			1745	
				DEC MEDICALORS
			MAIL DATE	DELIVERY MODE
			08/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	•		
Office Assists Commence		10/815,151	HONDA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Angela J. Martin	1745			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[🖂	Responsive to communication(s) filed on 07 Ju	ine 2007.				
'=	This action is FINAL . 2b) ☐ This action is non-final.					
3)□	Since this application is in condition for allowar		secution as to the merits is			
	closed in accordance with the practice under E	•				
Dispositi	on of Claims	, i de la final de				
4)⊠	Claim(s) 1-5 and 30 is/are pending in the applie	cation.				
	4a) Of the above claim(s) is/are withdraw					
)☐ Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-5 and 30</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9)	The specification is objected to by the Examine	r.				
10)🖂	The drawing(s) filed on 31 March 2004 is/are: a	a)⊠ accepted or b)⊡ objected to	by the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
ŕ	1.⊠ Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* S	ee the attached detailed Office action for a list of	of the certified copies not receive	d.			
Attachment	t(s)					
	e of References Cited (PTO-892)	4) Interview Summary				
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa				
	No(s)/Mail Date	6) Other:	••			

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DETAILED ACTION

This Office Action is responsive to the Amendment filed on June 7, 2007. The Applicant has canceled non-elected claims 6-29 and has added new claim 30. However, the rejection is made final for the following reasons of record and a new 112, 2nd rejection is presented based on new claim 30.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 30 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 30 recites the limitation "the horizontal direction...the vertical direction" in line 2. There is insufficient antecedent basis for this limitation in the claim.
- 4. Claim 30 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: which direction is horizontal and which direction is vertical relative to a plate.

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Claim Rejections - 35 USC § 102/103

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-5 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hobson et al., U.S. Pat. No. 5,445,906.

Rejection of claims 1-5 drawn to an energy device.

Hobson et al., teach an energy device comprising a winding body in which a band-shaped laminate (abstract) having a flexible elongated substrate, a positive collector, a solid electrolyte, a negative active material, and a negative collector in this order is wound in a plate shape with the flexible elongated substrate placed inside (col. 3, lines 37-67). The energy device according to claim 1, wherein the flexible elongated substrate is made of an insulating material (col. 6, lines 13-16). The energy device according to claim 1, further comprising a negative active material between the negative collector and the solid electrolyte (col. 3, lines 56-68). The energy device

according to claim 3, wherein a thickness of the positive active material is smaller than that of the negative active material (Fig. 8, ref. 84 anode, ref. 80 cathode). The energy device according to claim 1, wherein a minimum radius of an outer surface of the flexible elongated substrate is in a range of 5 times to 100 times a thickness of the band-shaped laminate excluding the flexible elongated substrate (col. 7, lines 27-59).

Thus, the claims are anticipated.

However, if the claims are not anticipated, in the alternative, they are obvious because although Hobson et al., teach the layers in opposite order of the application, because it is well-known in the art to provide a centrally-located anode, as evidenced by Yamaura et al., U.S. Pat. No. 6,658,498. In the application of a centrally-located anode, the thickness of the anode would be smaller than the cathode.

Response to Arguments

8. Applicant's arguments filed 6/7/07 have been fully considered but they are not persuasive. Applicant argues that, "Applicants respectfully disagree with the rejection's assertion that Hobson discloses a winding body wound into a plate shape." However, Hobson et al., specifically recites a wound battery structure in column 3, lines 4-5. Additionally, one of the numerous definitions of plate in the Merriam-Webster's Collegiate Dictionary (10th ed) is a smooth flat thin piece of material. One of the definitions on Dictionary.com for plate is a shallow, usually circular dish; a thin, flat sheet or piece of metal or other material, esp. of uniform thickness. Therefore, the winding body of Hobson can be defined as plate shaped (circular).

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Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AJM

PATRICK JOSEPH RYAN SUPERVISORY PATENT EXAMINER